(FILE 'HOME' ENTERED AT 13:43:28 ON 06 APR 2003)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT' ENTERED AT 13:43:45 ON 06 APR 2003

L1 116 S PHOSPHORYCHOLINE?

=>

L2 3 S L1 AND (C REACTIVE)

ide no

WC00/C

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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT' ENTERED AT 13:43:45 ON 06 APR 2003

L1 116 S PHOSPHORYCHOLINE?

L2 3 S L1 AND (C REACTIVE)

=>

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ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
L2
     1973:122503 CAPLUS
AN
DN
     78:122503
     Effect of C-reactive protein and blood-group
ΤI
     substances on tritium-labeled-thymidine incorporation into DNA of
     leukocytes
     Hokama, Y.; Paik, Y. P.; Yanagihara, E.; Kimura, L.
ΑU
     Sch. Med., Univ. Hawaii, Honolulu, HI, USA
CS
     RES: Journal of the Reticuloendothelial Society (1964-1973) (1973),
SO
     13(2), 111-21
     CODEN: RESJAS; ISSN: 0033-6890
DT
     Journal
     English
LA
CC
     15-13 (Immunochemistry)
     The incorporation of thymidine-3H by leukocytes decreased in the presence
AB
     of C-reactive protein and the effect could be reversed
     in the presence of phosphorycholine. It was suggested that
     decreased incorporation was due to the binding of C-
     reactive protein to the leukocyte surface.
ST
     C reactive protein leukocyte; thymidine leukocyte DNA;
     phosphorylcholine thymidine leukocyte
     Proteins
IT
     RL: BIOL (Biological study)
        (C-reactive, DNA formation inhibition by, in
        leukocyte)
ΙT
     Leukocyte
        (DNA formation by, C-reactive protein effect on)
     Deoxyribonucleic acids
IT
     RL: BIOL (Biological study)
        (formation inhibition of, by C-reactive proteins,
        in leukocyte)
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ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
ΑN
     1990:114222 CAPLUS
DN
     112:114222
     Binding specificity of human C-reactive protein by
TI
     using affinity chromatography
     Kishida, Takuya; Kuwajima, Shirou; Noda, Tadafumi; Izumi, Yoshihito; Naka,
ΑIJ
     Keiichi; Matsui, Tadashi; Okuda, Kiyoshi
CS
     Med. Sch., Osaka City Univ., Osaka, Japan
SO
     Ensho (1989), 9(5), 369-74
     CODEN: ENSHEE; ISSN: 0389-4290
     Journal; General Review
DT
LA
     Japanese
CC
     6-0 (General Biochemistry)
     A review with 39 refs. Clin. and biol. aspects, esp. immunol. ones, of
AB
     human C-reactive protein (CRP) were studied. Some of
     them were ascribed to its capacity of ligand-binding with
     phosphorycholine (PC) Ca-dependently. While type 4 pneumococcal
    polysaccharide, which lacks phosphate and choline, has been pointed out to
     be able to bind human CRP in Ca-dependent manner, ligands other than PC
     should be considered. Specific affinity chromatog. with neg.-charged
     aminocaproic acid binds human CRP Ca-dependently, being almost comparable
     to PC-affinity chromatog. In addn., another specific ligand of
     pos.-charged aminohexyl-agarose binds human CRP Ca-independently. These
     new ligands may provide simple models for understanding human CRP .
ST
     C reactive protein ligand binding review
    Molecular association
        (of C-reactive proteins of human with ligands,
        specificity of)
IT
     Proteins, specific or class
     RL: BIOL (Biological study)
        (C-reactive, aminocaproate and aminohexyl-agarose
        interaction with, of human)
IT
     1319-82-0, Aminocaproic acid
                                    58856-73-8
     RL: PROC (Process)
        (C-reactive protein of human binding of)
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ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

L2

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ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
L2
    1992:49588 BIOSIS
AN
DN
    BA93:29563
    ISOLATION OF A PHOSPHORYLCHOLINE-BINDING PROTEIN FROM THE HEMOLYMPH OF THE
TI
    SNAIL ACHATINA-FULICA.
ΑU
    MANDAL C; BISWAS M; NAGPURKAR A; MOOKERJEA S
    DEP. VET., MICROBIOL. PARASITOL., TEX. A AND M UNIV., COLLEGE STATION,
CS
    TEX. 77843-4467.
SO
    DEV COMP IMMUNOL, (1991) 15 (4), 227-240.
     CODEN: DCIMDO. ISSN: 0145-305X.
FS
    BA; OLD
    English
LA
    A phosphorylcholine-binding protein from the hemolymph of the snail
AB
    Achatina fulica was purified to near homogeneity using a Sepharose
    phenylphosphorylcholine affinity column. The protein bound to the affinity
     column was eluted with 5 mM phosphorylcholine as a single symmetrical
    peak. The purified protein (400 Kda) contained 35-40% carbohydrate. On
     SDS-PAGE the protein separated into two bands of 20 and 24 Kda, and had a
    pI of 5.9. On immunodiffusion, antiserum to the snail phosphorylcholine
    binding protein did not cross-react against other phosphorylcholine
    binding proteins, like rat serum phosphorylcholine-binding protein (PCBP),
    Limulus C-reactive protein (CRP), or human CRP. On
    pretreatment of the snail hemolymph with this antiserum, the
    hemagglutination titer of the hemolymph was markedly decreased. The
    purified snail phosphorylcholine binding protein agglutinated rabbit
     erythrocytes in the absence of divalent cation (Ca+2) but traceamount of
     Ca+2 increased its binding. The strongest inhibitor of the agglutination
     reaction was lactose, followed by melibiose and 2-deoxygalactose. The
     relationships of the snail phosphorycholine binding protein to
     other hemolymph agglutinins and to CRPs are discussed in light of common
    phylogeny.
    Evolution 01500
    Cytology and Cytochemistry - Animal 02506
     Clinical Biochemistry; General Methods and Applications *10006
     Comparative Biochemistry, General 10010
    Biochemical Methods - Proteins, Peptides and Amino Acids 10054
    Biochemical Methods - Carbohydrates 10058
    Biochemical Studies - General 10060
    Biochemical Studies - Proteins, Peptides and Amino Acids *10064
    Biochemical Studies - Carbohydrates *10068
    Biophysics - General Biophysical Techniques 10504
    Biophysics - Molecular Properties and Macromolecules *10506
    Metabolism - General Metabolism; Metabolic Pathways
    Metabolism - Carbohydrates *13004
    Metabolism - Proteins, Peptides and Amino Acids *13012
    Blood, Blood-Forming Organs and Body Fluids - Blood and Lymph Studies
    15002
    Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
    Blood, Blood-Forming Organs and Body Fluids - Other Body Fluids 15010
     Immunology and Immunochemistry - Immunohematology, Blood Groups *34506
    Immunology and Immunochemistry - Immunopathology, Tissue Immunology
     *34508
    Invertebrata, Comparative and Experimental Morphology, Physiology and
    Pathology - Mollusca *64026
    Invertebrata, Comparative and Experimental Morphology, Physiology and
    Pathology - Arthropoda - Chelicerata 64060
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BC Gastropoda 61200 Merostomata 75404 Leporidae 86040 Hominidae 86215 Muridae 86375

Miscellaneous Descriptors

LIMULUS-POLYPHEMUS HUMAN RAT RABBIT ERYTHROCYTE AGGLUTINATION METHOD

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ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
1.2
     1992:49588 BIOSIS
AN
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     BA93:29563
     ISOLATION OF A PHOSPHORYLCHOLINE-BINDING PROTEIN FROM THE HEMOLYMPH OF THE
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CC
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     Cytology and Cytochemistry - Animal 02506
     Clinical Biochemistry; General Methods and Applications *10006
     Comparative Biochemistry, General 10010
     Biochemical Methods - Proteins, Peptides and Amino Acids 10054
     Biochemical Methods - Carbohydrates 10058
                                   10060
     Biochemical Studies - General
     Biochemical Studies - Proteins, Peptides and Amino Acids *10064
     Biochemical Studies - Carbohydrates *10068
     Biophysics - General Biophysical Techniques
     Biophysics - Molecular Properties and Macromolecules *10506
    Metabolism - General Metabolism; Metabolic Pathways
    Metabolism - Carbohydrates *13004
    Metabolism - Proteins, Peptides and Amino Acids *13012
    Blood, Blood-Forming Organs and Body Fluids - Blood and Lymph Studies
     15002
    Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
    Blood, Blood-Forming Organs and Body Fluids - Other Body Fluids 15010
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     *34508
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     Invertebrata, Comparative and Experimental Morphology, Physiology and
    Pathology - Arthropoda - Chelicerata 64060
BC
    Gastropoda 61200
    Merostomata 75404
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Muridae 86375 IT Miscellaneous Descriptors

Leporidae 86040 Hominidae 86215

LIMULUS-POLYPHEMUS HUMAN RAT RABBIT ERYTHROCYTE AGGLUTINATION METHOD